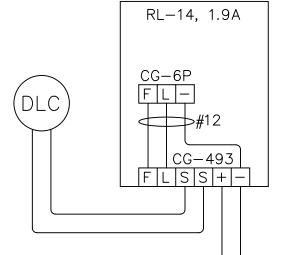
EMERGENCY RANGE LT



PC	DINT TO POINT	WIRE RUNNING	LIST
FROM	WIRE SIZE (AWG)	MAX DISTANCE (FT)	<u>TO</u>
SOLAR PANEL (+) SOLAR PANEL (-)	18 18	12 12	EMERGENCY BATTERY (+) EMERGENCY BATTERY (-)
EMERGENCY BATTERY (+) ESB-DC, TB1 (+) ESB-DC, TB1 (-) ESB-DC, TB2, CG-493 (+) EMERGENCY BATTERY (-)	12 12 12 12* 12*	15 15	ESB-DC, TB2, EMERG BATT (+) MAIN RANGE LT, CG-493 (+) MAIN RANGE LT, CG-493 (-) EMERGENCY RANGE LT, CG-493 (+) EMERGENCY RANGE LT, CG-493 (-)
EMERGENCY RANGE LT, CG-493 (F) EMERGENCY RANGE LT, CG-493 (L) EMERGENCY RANGE LT, CG-493 (-)	12 12 12		EMERGENCY RANGE LT, CG-6P (F) EMERGENCY RANGE LT, CG-6P (L) EMERGENCY RANGE LT, CG-6P (-)
PHOTORESISTOR, 1ST LEAD PHOTORESISTOR, 2ND LEAD			EMERGENCY RANGE LT, CG-493 (S) EMERGENCY RANGE LT, CG-493 (S)

* THE MAX DISTANCE IS 26FT FOR #10 AWG; 39FT FOR #8 AWG.

BILL OF MATERIALS					
<u>ITEM</u>	<u>TYPE</u>	SOURCE OF SUPPLY	QUANTITY		
SOLAR PANEL (10W)	G-SEC QPL 401A	ELC	NOTE 3		
EMERGENCY SWITCH BOX-DC	EMERGENCY SWITCH BOX-DC ESB-DC		1		
PHOTORESISTOR	TYPE L	ELC	1		
RANGE LT, RL-14	CARLISLE & FINCH	ELC	NOTE 1		
12VDC FLASHER	CG-493 / CG-181	ELC	1		
12VDC LAMPCHANGER CG-6P		ELC	1		
LAMPS 12VDC, 1.9A		ELC	6		
EMERG BATTERY, LEAD ACID S2000		DELCO	NOTE 3		

			MAIN RANGE LT OLTAGE MONITO (12VDC)	
/	Λ	Λ	+ - EMERG TB1 BATT CG-493 (+) (+)	EMERGENCY SWITCH BOX-DC (ESB-DC)
	NOTE 5 #18/2		TB2	
/ COL AD		2 — #12 AV	VG in 3/4" PVC Cond	uit

EMERGENCY BATTERY

(100AH)

NOTES:

- 1. RANGE LANTERN, LAMPS, RHYTHM, AND BEAM WIDTH DETERMINED BY INTENSITIES RECOMMENDED BY THE RANGE DESIGN PROGRAM.
 2. NORMALLY—CLOSED RELAY IN ESB IS HELD OPEN WHEN MAIN RANGE LIGHT OPERATING NORMALLY; WHEN MAIN SIGNAL VOLTAGE FALLS BELOW 3.2VDC, RELAY DEENERGIZES, TURNING ON THE EMERGENCY RANGE LIGHT.
 3. BATTERY AND PANEL SIZED FOR CONTINOUS TRICKLE—CHARGE AND UP TO FOUR DAYS EMERGENCY LIGHT OPERATION IF MAIN POWER FAILS.
 4. WIRE SIZED FOR MAX ANTICIPATED LOAD. WIRES MAY BE RESIZED ONLY IF LOAD & CHARGING CIRCUIT VOLTAGE DROPS DO NOT EXCEED 0.1V & 0.6V RESPECTIVELY.

- RESPECTIVELY.

 5. STANDARD SOLAR PANEL COMES WITH 12FT LEAD, #18AWG PIGTAIL. ARRANGE PANEL CLOSE TO BATTERY, CONNECT PIGTAIL DIRECTLY TO BATTERY.

 6. ALL WIRE RUNS SHALL BE ENCLOSED IN APPROPRIATELY SIZED RIGID OR LIQUID—TIGHT FLEX CONDUIT AS INDICATED TO FORM A WEATHERTIGHT SYSTEM AND PROTECT ELECTRICAL COMPONENTS FROM THE ELEMENTS.

ı			ı					
A	8/03	JTG	ADDED CONDUIT AND NOTE 6.					KMD
REV.	DATE	APPR.	DESCRIPTION					BY
DESIGNED: STN DRAWN: STN TRACED: CHECKED: KA/JTG REVIEWED BY: H.R. CLEVELAND G-SEC-2A REVIEWED BY: LE. JAEGER			U.S. COAST GUARD			HE/	ADQUAR	TERS
			CML		ENGINE	ERING		
		JTG	STANDARD AID TO NAVIGATION OPTIONAL EMERGENCY RANGE LIGHT					
			(FOR 12VDC MAIN LIGHT)					
	-SEC-							
			APPROVED: CAPT	J.A. RA	исн		DATE 5/1	9/97
			CHIEF, OFFICE O	FCIVIL				
UNLESS OTHERWISE ALL DIMENSIONS ARE TOLERANCES: DIM. ANG.		SIONS	RE IN INCHES.			!	REV.	
		A	NG.	SCALE	: NONF	SHFFT	1 OF	1

SOLAR PANEL

(10W)